

ENT BOOK

Dimensions			Contents	Reference to last Measurement
th	Breadth	Depth		
	5	6	7	8
0.6	-	-	72.0	
0.6	-	-	72.0	
0.6	-	-	72.0	
0.6	-	-	72.0	
0.6	-	-	72.0	
0.6	-	-	67.20	
0.6	-	-	100.80	
0.6	-	-	45.60	
0.6	-	-	45.60	
0.6	-	-	120.00	
3.6	-	-	54.00	
TOTAL =			1009.20 sqm	

M. L. P. L. Y. N. D.
A. E. (W. 7)

BR-30/28-09-17

M. A. R. 57 (Rule 116)
Measurement Book

S. B. R. N. D. - 9/26/12
No. B 257986

Main-bill: Construction of two From pure drinking To water unit in Ward no. 07
Contractor of nature of Agency bytarayanapura; Vasanth:
Commencement of work

Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
Est. Cost:	25.00 lakhs.					
Job Code:	007-17-000020					
A.S. No.:	AS/CE(YNK) 53/16-17; dt: 28-12-16					
T.S. No.:	TS/CE(YNK) 73/16-17; dt: 28-12-16					
Ag. No.:	No. B. B. M. P. / EE / BTP / 100 / 241 / dt: 25-3-17					
Work order No.:	No. B. B. M. P. / EE / BTP / 100 / 241 / dt: 25-3-17					
Approved tender price:-	2260457.52					
Date of completion:-	14-09-17					
Date of recording:-	14-09-17					

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	<u>Item No. 01:-</u> Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually., Qty vide Page No. 1889/12-13 $\rightarrow 18885 \rightarrow 4.20 \text{ cum}$ At the rate of Rs. 140.00 $\rightarrow$						~~588.00~~ <u>588.00</u>
	<u>Item No. 02:-</u> Earthwork excavation for foundation of buildings, culvert water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m., Qty vide page. No. 1889/12-13 $\rightarrow 18886 \rightarrow 21.71 \text{ cum}$						

Serial No.
 Name of Work
 Name of Contractor of nature of Agency
 Date of commencement of work

Date 1	Full description, etc, of work 2
	At the rate of
	<u>Item No. 03:-</u> Providing and with OPC cement @ 180 kg coarse aggregates @ Qty vide p At the rate
	<u>Item No. 04:-</u> Providing and

IT BOOK

Dimensions		Contents	Reference to last Measurement
Breadth 5	Depth 6		
		7	8
tion in ordinary soil d manually.,			
→ 188885	→ 4.20 cum		~~588.00~~
tion of buildings, and electrical conduits above in width, in			
188886	→ 21.71 cum		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 257987

Serial No.
Name of Work From To
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	At the rate of Re: 260.00 →						~~5644.00~~
	<u>Item No. 03:-</u> Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm & down size graded granite metal coarse aggregates @ 0.95 cum & fine aggregates @ 0.57 cum. Qty vide page No: 1889/11-13 → 188886 → 8.83 cum At the rate of Re. 4700.00 →						~~40032.00~~ 40091
	<u>Item No. 04:-</u> Providing and constructing granite / trap / basalt size stone						

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	masonry in foundation with cement mortar 1:6, Qty vide page No. 1889-12-12 / 188827 → 12.06 cum At the rate of Rs: 3800.00 →						<u>45828.00</u>
	<u>Item No. 05:-</u> Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones: Qty vide page No: 1889-11-13 / 188887 → 5.14 cum At the rate of Rs: 4500.00 →						<u>23130.00</u> <u>23146.00</u>
	<u>Item No. 06:-</u> Filling available excavated earth (excluding rock)						

Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2
	in sides of foundation Qty vide page At the rate
	<u>Item No. 7:-</u> Providing and with cement @ 240 kgs Qty vide page At the rate
	<u>Item No. 08:-</u> providing +

BOOK

Dimensions		Contents	Reference to last Measurement
Breadth	Depth		
5	6	7	8

		moor 1:6.,	
88887	→	12.06 cum	<u>45828.00</u>
		granite / trap / basalt	
		cement moor 1:6.,	
88887	→	5.14 cum	<u>23130.00</u>
		earth (excluding rock)	

M. A. R. 57 (Rule 116)
Measurement Book

No. B **257988**

Serial No.
Name of Work From To
Name of Contractor or nature of Agency
Date of commencement of work

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	in sides of foundations upto plinth in layers not exceeding 20cm.,						
	Qty vide page No: 1889-12-13					21.71 cum	
	At the rate of Rs 110.00 →						<u>2388.00</u>
	<u>Item No. 7:-</u>						
	Providing and laying in position plain cement concrete of mix 1:2:4						
	with cement @ 240 kgs with 20mm.						
	Qty vide page No: 1889/12-13 18888					→ 2.75 cum	<u>14025.00</u>
	At the rate of Rs 5100.00 →						<u>14030.00</u>
	<u>Item No. 08:-</u>						
	Providing flooring with 60x60 cms size vitrified glazed tiles						

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	of approved quality & make, fixed on top of existing flooring veerannapalya: Hebbal [Near shani- mahatma temple]: At the rate of Rs. 900.00 → <u>Providing R.O. plant:-</u> <u>Item No. 09:-</u> Providing reverse osmosis system to cover 2000 litre of high TDS water per hour: Raw water pump, sand media filter, activated carbon filter, Dosing system, micron filter, high pressure pump, micron filter, high pressure pump, RO membrane housing, RO membranes,	01 01	3.20 3.20	2.60 2.60	- -	= 8.32 = 8.32 <u>16.64 sq.m</u> <u>14976.00</u>	

Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2
	RO cleaning system, ... At the rate <u>Electrification:</u> <u>Item No. 10:-</u> Supplying and Conduct /casing copper multi-strand,

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No. B 257989

Serial No.
Name of Work From To
Name of Contractor of nature of Agency
Date of commencement of work

Contents 7	Reference to last Measurement 8
existing flooring 8.32 8.32 16.64 Sq.m 14976.00 2000 litres of le carbon filter, p, micron filter, membranes,	

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Ro cleaning system, Electrical panel, Instrumentation, PH - Dosing system, 02 At the rate of Re. 780,000.00 → <u>Electrification:</u> <u>Item No. 10:-</u> Supplying and wiring adopting loop system in existing pvc Conduit / casing capping using 1100 V grade, copper conductor flexible multistrand,					2 1560000.00	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	veerannapalya: Shanimahatma temple. At the rate of Rs:	6 6	- -	- -	- -	= 6 = 6 1200 Nos	 2640.00
	<u>Item No-11:-</u> long point above 6mtr upto 10mtr from tapping point to bot.	6 6	- -	- -	- -	= 6 = 6 12 Nos	 3840.00
	At the rate of Rs: 320.00 →						
	<u>Item No-12:-</u> supplying and flush painting leak wooden box without front plate, made of not less than 12mm thick wood, after dee groove cutting						

Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2
	finishing with necessary At the rate of
	13) (1.61) 12" x 12" x 3" (300 x
	At the rate of Rs:
	14) (1.6.3) 10" x 7" x 3" (254 x
	At the rate of Rs:
	15) Supplying 4mm thick p switches, regulators etc.

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No. B 257990

Serial No.
Name of Work From To
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	finishing with necessary cement plastering complete. $2 \times 10 = 20$ ✓ At the rate of Re. 50.00 →					= 20 Nos.	<u>1000.00</u> ✓
	12) (1.6.1) 12" x 12" x 3" (300 x 300 x 76 mm) At the rate of Re: 90.00 → ✓	15 ✓				= 15 Nos.	<u>1350.00</u> ✓
	14) (1.6.3) 10" x 7" x 3" (254 x 178 x 76 mm) At the rate of Re: 70.00 → ✓	18 ✓				= 18 Nos	<u>1260.00</u> ✓
	15) Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulators etc,						

Contents 7	Reference to last Measurement 8
6 ✓ 6 ✓ 12 Nos ✓ <u>3640.00</u>	
6 ✓ 6 ✓ 12 Nos ✓ <u>3840.00</u>	
without front plate, groove cutting	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	At the rate of Rs. 0.22 →					= 26666.00	5867.00
	Item No. 16:- Extra for groove cutting in brick wall / cc floor to the suitable depth for connecting of conduit / 32 pipe and plastering, finishing upto wall surface complete. upto 50mm conduit in brick wall: 2 - 30.00 - - - 60.00						1200.00
	At the rate of Rs. 20.00 →						
	Item No. 17:- Supplying heavy gauge PVC conduit pipe 14/20mm dia 2mm thick with suitable size bends, metal junctions & res adhesive paste,						

Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2
	At the rate of
	Item No. 18:- Supplying and fixing and wiring with 60w
	At the rate
	Item No. 19:- Supplying pattern for 12 watts fluorescent

OK

Depth 6	Contents 7	Reference to last Measurement 8
	= <u>26666.00</u>	<u>5867.00</u>
	2 c floor to the suitable plastering, finishing unit in brick wall: = <u>60.0 m</u>	<u>1200.00</u>
	14/20 mm dia 2mm res adhesive paste,	

M. A. R. 57 (Rule 116)
Measurement Book

No. B **257991**

Serial No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	At the rate of Rs. 40.00 →	2	25.0	-	-	= <u>50.0 m</u>	<u>2000.00</u>
	Item No. 18:- Supplying and fixing PBBC/bakelite straight or slant batten holder and wiring with 60w/230 volts lamps: At the rate of Rs. 70.00 →	2	-	-	-	= <u>2 Nos</u>	<u>140.00</u>
	Item No. 19:- Supplying patli type fluorescent tube light fitting of 2"-soitable for 12 watts fluorescent tube fitting, made out of M.S. sheet & store..						

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	At the rate of Rs: 520.00 →	2x2	-	-	-	UNDS	2020.00
	Item No. 20:- wiring for lighting power circuit using one of FRLS PVC insulated 110V grade, multi-strand copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS 694:1990.	1x2	15.0	-	-	301.00 m	300.00
	At the rate of Rs 10.00 →						
	Item No. 21:- supplying and fixing cast Aluminium round or oblong type both head fitting with GP wire guard, glass cover with 60/100 watts 230V GLS lamp:						

Serial No.
Name of Work From
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2	Number 3
	At the rate of	1x2
	Item No. 22:- supplying, fixing, wiring of cutouts and other equipment 2.90 thick GI pipe..	1x2
	At the rate of	250
	Item No. 23:- supplying of 1.1 KV	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 257992

Serial No.
Name of Work From To
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc., of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	At the rate of 550.00 →	1x2	-	-	-	2 Nos	1100.00
	Item No. 22:- supplying, fixing, wiring, earth electrode for grounding, conduits, 30 outlets and other equipments on the meter board using 40mm dia 2.90 thick G.I. pipe.	1x2	-	-	-	2 Nos	5000.00
	At the rate of 2500.00 →						5000.00
	Item No. 23:- supplying of 1.1 KV LT UG cable having aluminium conductor PVC						

Contents 7	Reference to last Measurement 8
4 Nos	2080.00
g FRLS PVC low conductor system of wiring	
30 Nos	300.00
round or oblong glass cover with	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	insulated, extruded inner sheathed, galvanized, steel strip	1x2	20.0	-	-	= 40.00m	
	At the rate of Rs. 100.00 →						4000.00
	<u>Item No. 24:-</u> Labour charges for laying of 1.1KV class UG cable in existing trench GP pipe / stone ware pipe / on wall.	1x2=2	20.00	-	-	= 40.00m	
	At the rate of Rs. 10.00 →						400.00
	<u>Item No. 25:-</u> Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,						

Serial No.
 Name of Work
 Name of Contractor of nature of Agency
 Date of commencement of work

Date 1	Full description, etc, of work 2
	At the rate of
	<u>Item No. 26:-</u> Supplying and thickness not less than on pole / wall / drain for UG cable: 40mm dia GP pipe: At the rate of

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No. B 257993

Serial No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

Contents	Reference to last Measurement
7	8

ged, steel strip
= 40.00m
4000.00

es UG cable
n wall.,
= 40.00m
400.00

into side refilling
consolidating etc.,

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1x2=2	15	-	-	= 30.00m	2100.00
	At the rate of Rs: 70.00 →						
	Item No. 26:- Supplying and fixing of class A (medium duty) G.I. pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements: for UG cable: 40mm dia G.I. pipe: At the rate of Rs: 310.00 →						
		1x2=2	4.0	-	-	= 8.0 mtr	2480.00

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	<u>Item No. 27:-</u> Supplying and fixing 11kV cast iron pot heads suitable for 11kV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts & washers etc, At the rate of Re. 240.00 →	1x2=2	-	-	-	= 2.0 NOS 480.00	
	<u>Item No. 28:-</u> Polyethylene water storage tank of specified capacity: At the rate of Rs. 50 →	01	-	-	-	= 01x2000 No: 10000.00	

Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Date 1	Full description, etc, of work 2
	<u>Item No. 29:-</u> Providing and fixing the pipe with pipes and fittings with confirming to IS 15778 supply including all c fixing the pipe with pipes and fittings with Veerannapalya: Hebbal shanimahatma temple: At the rate of

K

Contents	Reference to last Measurement
7	8
suitable for 11kv insulating compound brushers etc, = 2.0 Nos 480.00 specified capacity: = 01 & 2000 No: 10000.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 257994

Serial No.
 Name of Work From To
 Name of Contractor of nature of Agency
 Date of commencement of work

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	<u>Item No. 29:-</u> Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.0m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement., Veeranmapalya: Hebbal shanimahatma temple: At the rate of Rs: 104.00 →	01x40 01x10	-	-	-	= 40m = 10m = 50.0m	5200.00

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	<u>Item No. 30:-</u> Providing and constructing of pop panel cabin material vertical 50x100mm thick tube rafter 50x100mm thick tube, rafter rectangle tube 50x50mm thick tube purlins, roof panel of 50mm sandwich pop panel density. 40 kg and wall panel of 30mm with north side G2 colour coated ancillaries like c-channels, angles, sealene etc., door of size 1.8x2.0m an aluminium powder coated window of size 1.00x2.00m. 1 No. of structural glazing Veerannapalya Hebbal shanimahadma temple.	1	-	-	-	1	
		1	-	-	-	1	
						2.0 nos.	

Serial No.
 Name of Work
 Name of Contractor of nature of Age
 Date of commencement of work

Date 1	Full description, etc, of work 2
	At the rate of <i>C.C.F.C.</i> Assistant Executive Kodigehalli Sub Yelahanka Zone, Bangalore

M. A. R. 57 (Rule 116)
Measurement Book

No. B

257995

Serial No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	At the rate of Rs.	250204.80 →					500410.00
	C&P.C.						
	Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.						
						GRAND TOTAL	22,59780.00
							Rs. 2259514-
						M.P.M. N.D.	
						24/5/17	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		

Int. U. N.D
AE(L-7)

Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.

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Location
 showing the
 position of RO
 planite

Serial No.
 Name of Work
 Name of Contractor of nature of Agen
 Date of commencement of work

Date 1	Full description, etc, of work 2
	<u>Certificate:-</u> 1) Certified that 2) Certified that d <u>Int. U. N.D</u> <u>AE(L-7)</u>

M. A. R. 57 (Rule 116)
Measurement Book

No. B 257996

Serial No.

Name of Work From To

Name of Contractor or nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	<u>Certificate:-</u> 1. Certified that work done by the contractor is satisfactory: 2. Certified that debris has been removed from work spot. <u>Noted N.D</u> <u>AB(L)</u>					<i>[Signature]</i> Assistant Executive Engineer Kodigehalli Sub Division. Yelahanka Zone, B.B.M.P. Bangalore.	

Reference to last Measurement 8
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Location
showing the
position of RO
plants

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

2259514- w
 97159- w
 2162355- w
 Rs. Twenty one lakh, sixty two
 thousand three hundred fifty five
 only
 Knight's for Clearance
 26/09

Serial No.
 Name of Work
 Name of Contractor of nature of Agency
 Date of commencement of work

Date 1	Full description, etc, of work 2